

AMENDMENT TO THE CLAIMS

1. (Currently Amended) A composition for a coding system forming at least part of a coding system for a value document, comprising a luminescent basic substance and at least one luminescent additive, the possible codings of the coding system composition being formed by the presence or absence of one or more of a luminescent additive, the type of additives, and the number of additives;

wherein the luminescent basic substance and the luminescent additives each have coding-relevant emission lines located in a joint emission range;

wherein the luminescent basic substance and the luminescent additives each have coding-relevant emission lines located in a joint emission range; and first and second luminescent additives are provided which form a pair of mutually associated luminescent substances, the emission spectra of the first and second additives overlapping in at least a subrange of the joint emission range such that the emission spectrum of the first additive is complemented by the emission spectrum of the second additive.

2. (Cancelled)

3. (Currently Amended) The coding system composition according to claim 2 1, wherein all coding-relevant emission lines are outside the visible spectral range.

4. (Currently Amended) The coding system composition according to claim 2 1, wherein all coding-relevant emission lines are in the spectral range selected from the ranges consisting of from 750 nm to about 2500 nm; from about 800 nm to about 2200 nm; and from about 1000 nm to about 1700 nm.

5. (Currently Amended) The coding system composition according to claim 2 1, wherein at least two luminescent additives are provided whose coding-relevant

emission lines do not overlap with the coding-relevant emission lines of the basic substance in the joint emission range.

6. (Currently Amended) The coding system composition according to claim 1, wherein at least one of the luminescent basic substance and at least one of the luminescent additives is formed on the basis of a doped host lattice.

7. (Currently Amended) The coding system composition according to claim 1, wherein at least one of the luminescent basic substance and at least one of the luminescent additives is formed on the basis of a host lattice doped with rare earth elements.

8. (Currently Amended) The coding system composition according to claim 1, wherein at least one of the luminescent basic substance and at least one of the luminescent additives is formed on the basis of a host lattice doped with a chromophore, the chromophore being selected from the group consisting of scandium, titanium, vanadium, chromium, manganese, iron, cobalt, nickel, copper and zinc.

9. (Currently Amended) The coding system composition according to claim 8, wherein at least one of the host lattices is doped with a plurality of chromophores.

10. (Currently Amended) The coding system composition according to claim 6, wherein at least one of the host lattices is formed by a ~~mixed crystal solid solution~~.

11. (Cancelled)

12. (Currently Amended) The coding system composition according to claim 11, wherein the first and second additives are formed by a doped host lattice according to claim 6.

13. (Currently Amended) The coding system composition according to claim 11, wherein the first and the second additives are formed on the basis of different host lattices which have crystal fields of different strength and which are each doped with the same dopant.

14. (Currently Amended) The coding system composition according to claim 11, wherein the stated subrange where the emission spectra of the first and second additives complementarily overlap has a width of 200 nm or less.

15. (Currently Amended) The coding system composition according to claim 11, wherein the stated subrange where the emission spectra of the first and second additives complementarily overlap extends in a range selected from the group consisting of from about 850 nm to about 970 nm; from about 920 nm to about 1060 nm; from about 1040 nm to about 1140 nm; from about 1100 nm to about 1400 nm; from about 1100 nm to about 1250 nm; from about 1120 nm to about 1220 nm; from about 1300 nm to about 1500 nm; and from about 1400 nm to about 1700 nm.

16. (Currently Amended) The coding system composition according to claim 11, wherein the first and second additives have in the stated subrange at least one emission line in each case whose positions have a distance apart of about 30 nm or less.

17. (Currently Amended) The coding system composition according to claim 11, wherein the coding system composition has a plurality of pairs of mutually associated additives according to claim 11.

18. (Currently Amended) The coding system composition according to claim 17, wherein the subranges where the emission spectra of the first and second additives

of a pair overlap each other complementarily are different for different pairs of mutually associated additives.

19. (Currently Amended) The coding system composition according to claim 1, wherein the coding-relevant emission line of the luminescent basic substance is in the infrared spectral range above 1100 nm.

20. (Currently Amended) The coding system composition according to claim 1, wherein a plurality of luminescent basic substances are provided.

21. (Currently Amended) A value document having a coding system formed by at least part of the Use of a coding system coding composition according to claim 1 for securing value documents.

22. (Currently Amended) The coding system composition according to claim 7, wherein the host lattice is doped with one or more elements selected from the group consisting of neodymium, erbium, holmium, thulium, ytterbium, praseodymium, and dysprosium.

23. (Currently Amended) The coding system composition according to claim 14, wherein the overlap has a width of 100 nm or less.

24. (Currently Amended) The coding system composition according to claim 16, wherein said distance is 20 nm or less.

25. (Currently Amended) The coding system composition according to claim 24, wherein the distance is 10 nm or less.